

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 56116270
PUBLICATION DATE : 11-09-81

APPLICATION DATE : 18-02-80
APPLICATION NUMBER : 55019528

APPLICANT : SANYO ELECTRIC CO LTD;

INVENTOR : KUMETA MASAO;

INT.CL. : H01M 4/12 // H01M 4/42

TITLE : MANUFACTURE OF PASTED ZINC CATHODE

ABSTRACT : PURPOSE: To simplify the manufacturing process of a pasted zinc electrode, by making the alloying of zinc with an additive to be carried out coincidentally with the formation of a paste which consists of the former zinc and the additive.

CONSTITUTION: Zinc powder is added with both an additive, an aqueous solution which contains indium ions and lead ions, for example, an aqueous indium chloride-lead nitride solution which contains 3% of lead and 0.1% of indium, and polyvinyl alcohol as a viscous agent. The mixture is kneaded before it is stirred to make it undergo a reaction (alloying), a paste being prepared. After that, the paste is placed in a mold before it is dried, thus a zinc cathode being obtained. The drying of the paste vaporizes the water, the zinc-indium-lead alloy powder is converted into a paste, and thereby the mechanical strength of the zinc cathode is increased.

COPYRIGHT: (C)1981,JPO&Japio